

CLEAN VERSION OF AMENDED CLAIMS:

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SUB
C1
2. (Amended) A linear synchronous motor comprising:
- a) at least one primary part (1) and at least one secondary part (6);
 - b) the secondary part (6) has a sequence of poles (10) formed by permanent magnets;
 - c) the length of the secondary part (6) is greater than the length of the primary part (1) in the movement direction (5),
 - d) the primary part (1) has primary part slots (9) which are suitable for holding monophasic or polyphase windings,
 - e) the primary part (1) has means which lead to a change in the magnetic force in the movement direction (5) of the linear motor in the region of the end pieces (2) of the primary part (1), and
 - f) the end faces (14) of the end pieces (2) extend perpendicular to the movement direction (5) of the linear motor,
- wherein the air gap of the end pieces (2) is formed in such a way that a continuous change occurs in the magnetic force in the movement direction (5) of the linear motor in the region of the end pieces (2) of the primary part (1).

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4. (Twice Amended) The linear synchronous motor as claimed in claim 2, characterized in that the gaps (13), located between the poles (10), of the secondary part (6) exhibit an angle (20) which differs from 90° with respect to the movement direction (5) of the linear motor.
 5. (Twice Amended) The linear synchronous motor as claimed in claim 2, characterized in that the gaps (13) located between the poles (10) have a varying gap width (P).
 6. (Twice Amended) The linear synchronous motor as claimed in claim 1, characterized in that the end pieces (2) include at least one partial stack of laminations made of ferromagnetic material, said laminations directed essentially perpendicular to the direction of movement (5) of the linear motor.
 7. (Twice Amended) The linear synchronous motor as claimed in claim 2, characterized in that the end pieces (2) are configured for attachment onto the primary part (1).

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12. (Amended) The linear synchronous motor of claim 8, wherein the end pieces include at least one partial stack of laminations, which is made of ferromagnetic material, said laminations directed essentially perpendicular to the direction of movement of the linear motor.

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14. (New) The linear synchronous motor as claimed in claim 2, characterized in that the end pieces (2) of the primary part (1) are constructed in the absence of slots and without carrying a winding.

15. (New) The linear synchronous motor of claim 8, wherein each said end pieces is constructed in the absence of a slot and without carrying a winding.
